

**1B**

PRIMERS CANNOT BIND

ATTATAATGTTTAAACACCGGGTGGACTTAATTAACCTAGTGCCTTA

HAIRPIN A

TAAATTTACAAATTTGTAGCCCACTGAATTAATTGAAAGTCCGAT

**1C**

PRIMER BINDING REGION

S'ACCGAGCTCGACTATCCGGGAACA

HAIRPIN D (p53 exon 9)

CTGCCCAACACACAGCTGCTCTCCCGCCAAAGAAACCACTGGATGGAGATATTTCCACCTTCAGAA

3TGACGGTTCTTGTGTCGAGGAGGGTCCGTTTCTCTTGGTGAACCTACTCTTATAAGTGGAGTCAA

PRIMER BINDING REGION

3'ACGCCACTCTCCGACCTCTCAGCA

FIGURE 1

BEST AVAILABLE COPY

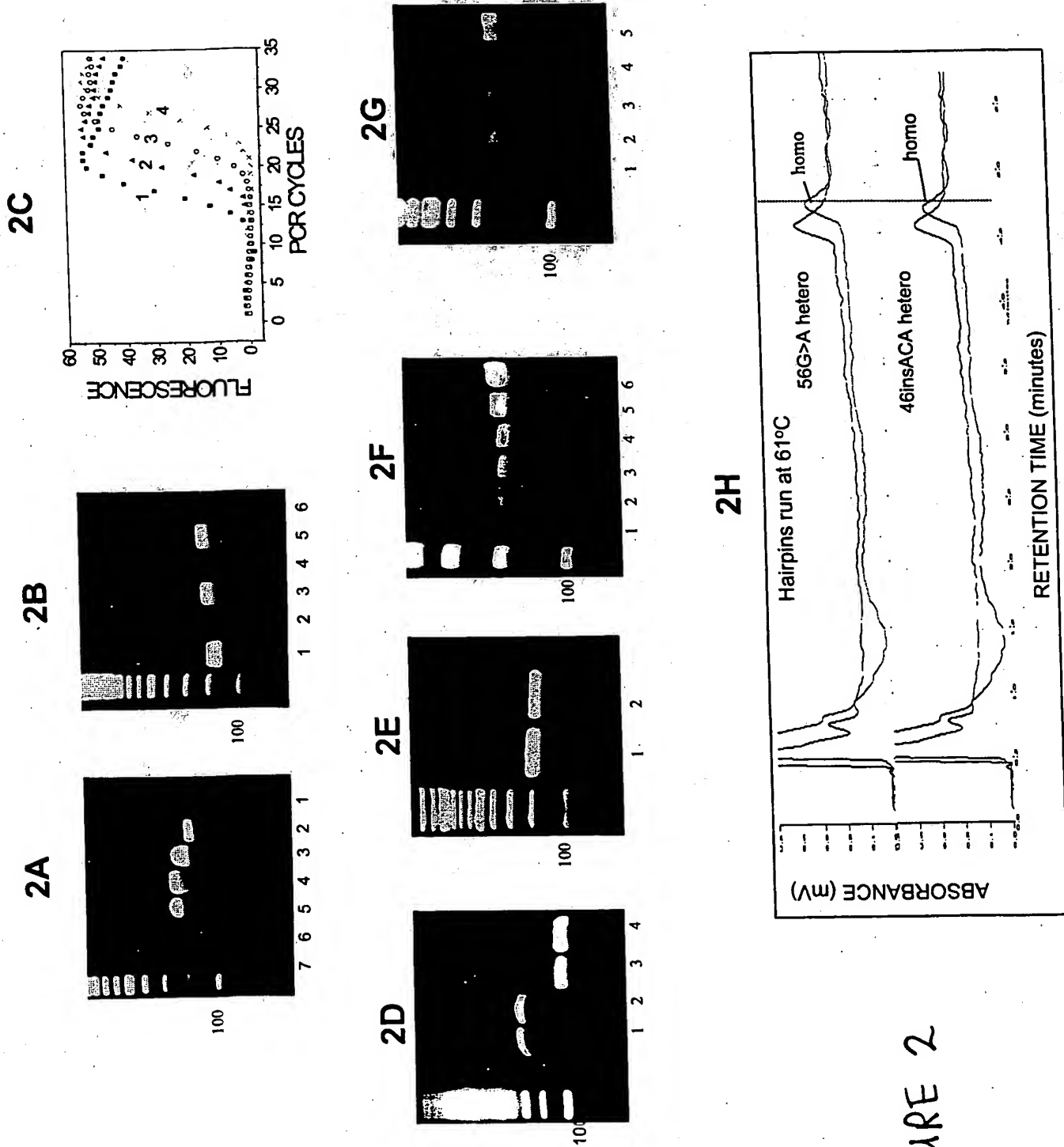


FIGURE 2

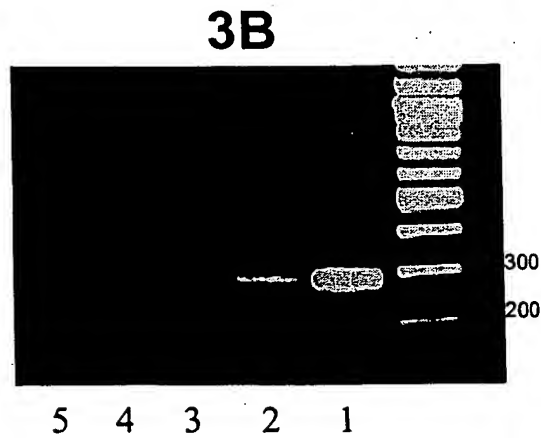
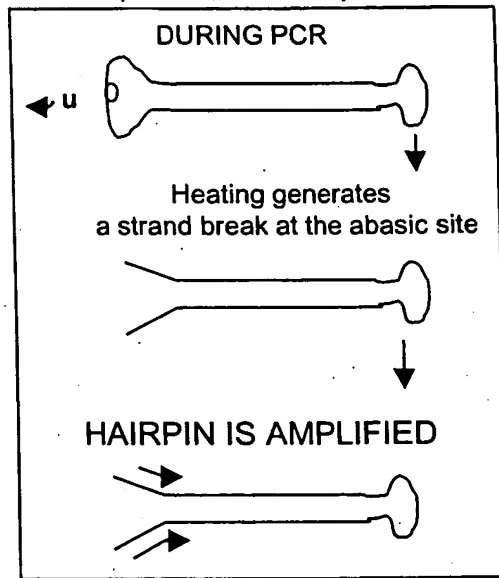
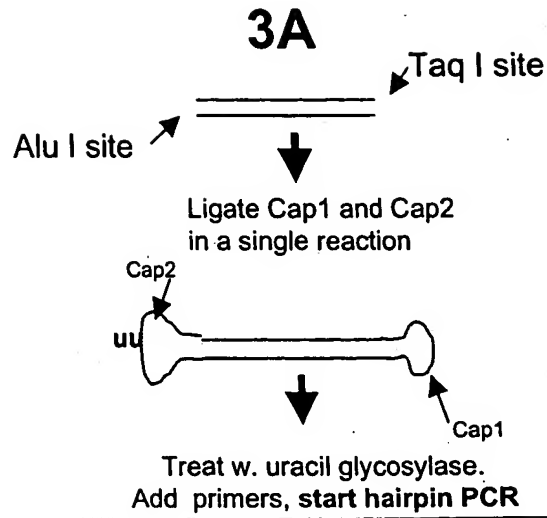


FIGURE 3

FIGURE 4

BEST AVAILABLE COPY

Figure 4A

primer-binding site



primer-binding site

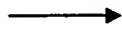
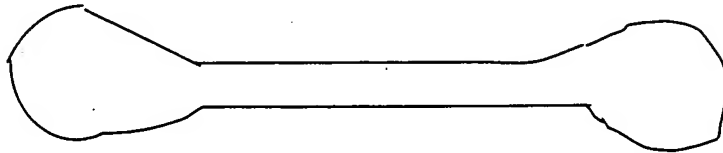


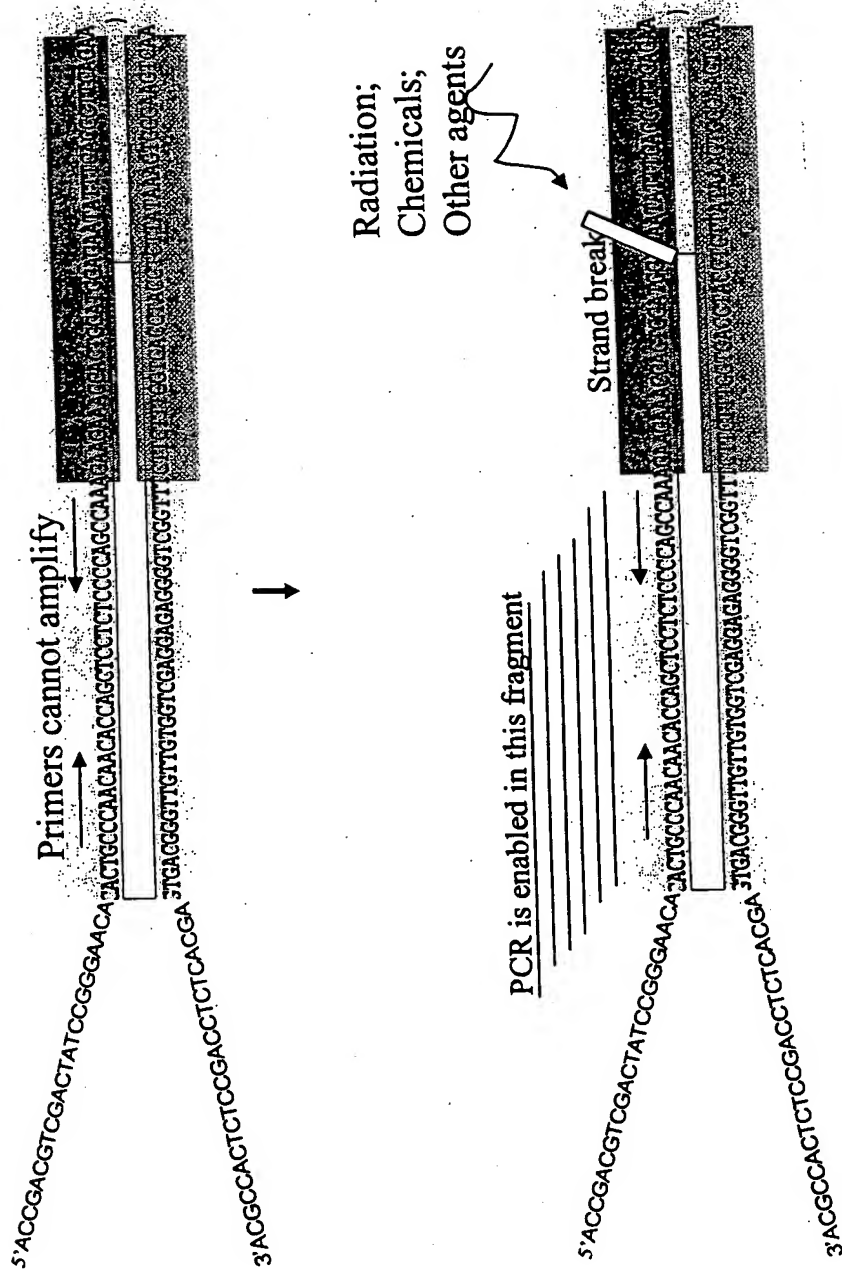
Figure 4B

primer-binding site



primer-binding site

**Figure 5: Use of hairpin-shaped DNA as a detector for radiation and/or chemical exposures**



A

5' CTGCCGAGTTCCTGCTTTGAGATGCTGTTGAG }  
 3' GACGGCTCAACCACAAGTTCCTATCAGCTGCA }

B

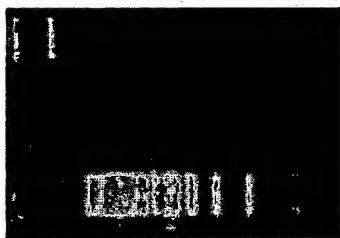


1 2

C

5' ATTTAAATGTTTAAACACGCGGTGACTTAACAGGCGCGCCTTAACTAGTGCCTTAG }  
 3' GTACTAAATTTACAAATTTGTGCGCCACTGAATTGTCCGCGCGGAATTGAAAGTGCATG }

D



1 2

FIGURE